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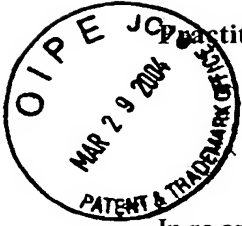
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Practitioner's Docket No. U 014913-9

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **CHUNG LUN YIP**
Serial No.: 10/723,459
Filed: November 26, 2003
For: JUICE EXTRACTOR

Group No.: 1761
Examiner:

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF CERTIFIED COPY WITH ENGLISH TRANSLATION

Attached please find the certified copy of the foreign application with English Translation from which priority is claimed for this case:

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Application
Number: 02250404.4

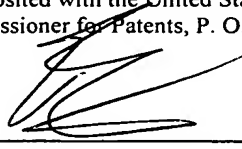
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SIGNATURE OF PRACTITIONER

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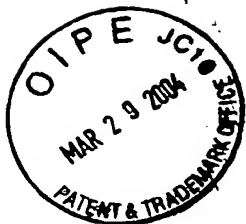
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Translation - For Reference only

Specification Sheets Abstract

This utility new model relates to a kind of pressing and contracting movement through screw thread turning down to squeeze fruit juice.

It squeezes thoroughly and to be easily cleaned .

The end of the extractor unscrews the base and its orientation plug connection inserts between the base and the container. Its pedestal is put inside the container. The base of the inside container is an inclined exit to let fruit juice out. There is a movable juice glass matched with the container at the end of the juice exit. The upper end of container connects pressing cover with screw thread. And there is a match special spanner with double hands for unscrewing the pressing cover and the base tightly .

Right Requisition

1. A kind of juice extractor for squeezing fruit juice, including: pressing cover, pedestal, container, base, etc.

Feathers: the end of container unscrews the base, orientation plug connection inserts between the base and container, pedestal is put into container, the base of the inside container is an inclined exit to let fruit juice out. There is a movable juice glass to match the end of juice exit. The upper end of container connects pressing cover with screw thread. And there is a matched special spanner with double hands for unscrewing the pressing cover and base tightly.

2. Based on the first above, the juice extractor's feathers are:

The pressing cover consists of: radial column-shape top cover, the slab core connecting the top cover through tight material along axes; the upper of the slab core dispersing evenly several protruding bars, the surface screw thread of the underside of the core, the base end of the internal slab core setting protruding semi-global convexity of the pedestal joining semi-global concave.

3. Based on the first above, the juice extractor's feathers are:

The pedestal consists of: semi-global convexity with several gradually changing semi-circle concave troughs from up and down of the surface.

The lowest part of external side of the semi-global convexity sets several small round holes evenly along the circumference of ring protruding bar by radial. The bottom of semi-global convexity opens several orientation concave troughs joining with the T-shape orientation protruding desk at bottom of the internal container.

4. Based on the first above, the juice extractor's feathers are:

The container consists of: internal upper side there are several internal screw threads joining surface screw thread of the pressing cover and slab core underside. The bottom of the internal container opens an exit to go through the inside and outside the container and join T-shape orientation protruding desk locating the bottom of internal side container with orientation concave of the bottom of the pedestal semi-global convexity, setting evenly protruding and concave slide-preventing bars in external upper exit along axes.

setting radial several buttons at the bottom joining with pedestal on base, on external circumference at the bottom opening joining buttons in two sides of upper to form an U-shape trough, ladder-shape gap.

5. Based on the first above, the juice extractor's feathers are:

The base consists of: seal absorbing-plate, the rack of pedestal setting the upper of the seal absorbing-plate, going through center hole of the base rack and in the middle along axes there is orientation protruding desk, connecting ascending turning button of the seal absorbing-plate with screw thread. The square hole sets at the end of the base rack, on the external wall of the container there are two bars of protruding bone to be lower than the high of square hole and join with the hole. Orientation plug connection joins in the hole of the base to link the base with the container, setting orientation concave trough on the circumference of the end of the base rack joining with external surrounding protruding material of the seal absorbing-plate.

6. Based on the first and the fifth above, the juice extractor's features are: Seal absorbing-plate consists of: through rubber center hole, the plate's center sets ascending turning button and orientation pedestal. The rubber tray is set several related pairs of concave holes and protruding balls for orientation. The rim of tray sets protruding pieces to be joined the orientation concave on the pedestal.
7. Based on the first or the fifth above, the juice extractor's features are: Orientation plug connection shows itself a drawer.
8. Based on the first above, the juice extractor's features are:
 Spanner with two jaws consists of: showing itself a ring. Its surface of the internal circularity opens along axes several protruding pieces of concave and their extending ends corresponding with protruding position of upper of the pressing and slab plug. Showing itself a ring, its surface of the internal circularity opens along axes several protruding small column pieces and their extending ends join concave on the ascending turning button, the middle of the small extending ends sinks internally a concave, inserting the big extending ends in the concave,
 the two sides of the ends sinking internally to form a concave and form a flashboard of the concave.
9. Based on the first and the eighth above, the juice extractor's features are: The middle of the small extending end sinks internally to form a connecting stick. The stick can insert the concave forming by the two sides of the ends sinking internally to form a lengthened spanner with double hands.
10. Based on the first above, the juice extractor's features are:
 The movable juice glass lay under the end of juice exit is a internal concave and shows itself crescent, the glass joins the surface of the external circularity of pedestal.

Specification Sheets Juice Extractor

Technology range:

This utility new model is a kind of a juice extractor to squeezes orange ,grapefruit, etc.

Technology background:

There are two common types extractors in the market. One is pressing with hands. It practices principal of lever or high ladder teeth to put fruit into container and press handle squeezing juice by all your best. The squeezing process is unstable, wasting labor and uneasily cleaning.

The other is : Take an orange inside container by your hand. Turn around orange when you squeeze. Scrape juice using protruding shuttle sides of extractor. Fruit juice can not be squeezed thoroughly. The extractor maybe move easily and is not operating conveniently.

Invention contents:

This utility new model will be going to overcome shortcomings of existing technology and provide a kind of pressing and contracting movement through screw thread turning down to squeeze fruit juice. The squeezing process is stable, saving labor and easily cleaning. Cupula suction is ample and can be fixed on desk. It squeezes thoroughly and to be easily cleaned . It's a new style extractor.

This model can be operated to achieve the aim through follows:

The extractor includes: pressing cover, pedestal, container, base, etc.

The special points are: The bottom of container turns down to base. Orientation plug connection inserts between base and container. Pedestal is put into container . There is an inclined exit inside the bottom of container. There is a matched movable juice glass put at the end of exit. Pressing cover joins the top end of container with screw thread, and there is a spanner with double hands, special for tightening pressing cover and base.

This model can also be operated to get the aim through follow:

The pressing cover consists of: radial column-shape top cover. The slab core is connected the top cover through tight material along axes. The upper of the slab core disperses evenly several protruding bars.

The surface screw thread of the underside of the core, the base end of the internal slab core sets protruding semi-global convexity of the pedestal joining semi-global concave.

The pedestal consists of: Semi-global convexity with several gradually changing semi-circle concave troughs from up and down of the surface.

The underside of external side of the semi-global convexity sets several small circle holes evenly along the circumference of the ring protruding bar. The end of semi-global convexity opens several orientation concave troughs joining with the T-shape orientation protruding desk at bottom of the internal container .

The container consists of: Internal upper side there are several internal screw thread joining surface screw thread of the pressing cover and slab core underside. The bottom of the internal container opens an exit to go through the inside and outside the container, joining T-shape orientation protruding desk locating the bottom of internal side container with orientation concave of the bottom of the pedestal semi-global convexity, setting evenly protruding and concave slide- preventing bars in external upper exit along axes, setting radial several

buttons at the bottom joining with pedestal on base , on external circumference at the bottom opening joining buttons in two sides of upper to form ladder style gap with an U-shape trough,

The base consists of: Seal absorbing-plate, the rack of pedestal setting the upper of the seal absorbing-plate, going through center hole of the base rack and in the middle point along axes. There is orientation protruding desk, connecting ascending turning button of the seal absorbing-plate with screw thread. The square hole sets at the end of the base rack. On the external wall of the container, there are two bars of protruding bone to be lower than the high of square hole and join with the hole. Orientation plug connection joins in the hole of the base to link the base with the container, setting orientation concave trough on the circumference of the end of the base rack joining with external surrounding protruding material of the seal absorbing-plate.

Seal absorbing-plate consists of: Through rubber center hole, the plate's center sets ascend turning button and orientation pedestal.

The rubber tray is set several related pairs of concave holes and protruding balls for orientation. The rim of tray sets protruding pieces to be joined the orientation concave on the pedestal.

Orientation plug connection shows itself a drawer.

Spanner with double hands consists of: Showing itself a ring, its surface of the internal circularity opens along axes several protruding pieces of concave and their extending ends corresponding with protruding position of upper of the pressing and slab plug . Showing itself a ring , its surface of the internal circularity opens along axes several protruding small column pieces and their extending ends join concave on the ascending turning button. The middle of the small extending ends sinks internally a concave, inserting the big extending ends in the concave. The two sides of the ends sink internally to form a concave and form a flashboard of the concave.

The middle of the small extending end sinks internally to form a connecting stick. The stick can insert the concave forming by the two sides of the ends sinking internally to form a lengthened spanner with double hands. The movable juice glass lay under the end of juice exit is a internal concave and shows itself crescent. The glass joins the surface of the external circularity of pedestal.

Comparing today's technology, this utility new model's advantages as follows:

1. simple structure, safe, reliable
2. squeezing thoroughly, saving time and labor
3. good-style, tasteful, wearing well
4. cheap and fitful for most people

Diagrams for the Utility New Model Affiliated to Specification

1. Diagram of Solid resolution graph
2. Diagram of using the bigger end of spanner with double hands
3. Diagram of using the smaller end of spanner with double hands
4. Diagram of joining spanner with double hands
5. Diagram of disconnecting spanner with double hands

bringing into effect for the utility new model

The utility new model is demonstrated together with the pictures as follows:

The model include: pressing cover1., pedestal2., container3., base4., orientation plug connection5., juice glass6., spanner with double hands7.

The end of container3. unscrews on the base4.,

The drawer-shape orientation plug5. inserts between the base4. and container3., pedestal 2. is put into container3.,

Inside the base of container3. sets an ascending juice exit32. ,

matching movable fruit juice galss6. under the end of 32. ,

On the end of container3. connects pressing cover with screw thread ,

To match special spanner with double hands7. to press cover1. tightly and the base absorbing plate,

pressing cover1. consists of :

top cover11. of the column-shape in axes

the slab core12. connected on the top cover11. through screw nail 13.,

the upper of the slab core12. dispersing evenly several protruding bars14.,

the surface screw thread15. under slab core12.,

At the base end of internal slab core 12. sets semi-global concave joining semi-ring convexity25. being the same as the pedestal 2.

pedestal2. consists of:

Semi-global convexity 25. , setting on semi-global convexity 25. with several arc concave troughs 21. which gradually changes from up and down. ,

Under the outside of semi-global convexity 25. setting ring-shape protruding pieces22. and on ring-shape protruding pieces22. dispersing evenly several small round holes 23. along a radius circumference,

the bottom end of semi-global convexity25. opening several the fixable T-shape orientation protruding desk33. of the bottom end of inside container3. joining orientation concave troughs24.

container3. consists of:

The upper inside of container setting four thin bar and six layers internal screw thread31. which can be join surface screw thread under pressing cover & slab core12.,

the bottom of inside container opening an exit32. going through inside and outside of container3. ,

a fixable T-shape orientation protruding desk 33. lying the end of inside container3. , and container3. joining pedestal semi-global convexity25. and orientation concave trough24. ,

setting evenly protruding and concave slide- preventing bars34. upper exit32. along external axes,

along radial bottom distributing several buttons35. joining rack of base4. ,

opening a ladder-shape gap36. showing itself a U-shape trough along external circumference of base end, the two sides of the top circumference are protruding of bone joining the gap36.

base4. consists of:

Seal absorbing-plate43. and rack of base41.setting upon it ,

going through center hole and rack of base41. ,

setting orientation protruding desk421. in the middle along axes, and there is an ascending turning button42. connecting seal absorbing-plate43. with screw thread ,

setting square hole44. upon the end of outside rack of base41. which joins the square hole44.

Two bars protruding bone which its height are lower than square44. ,

orientation plug connection5. which joins fixed base4. and container3 inserts into square hole44. of base ,

the bottom of circumference of base rack41. setting orientation concave trough46. joins protruding pieces433 on external circle area of seal absorbing-plate43.

seal absorbing-plate consists of:

Going through the center hole of rubber mat431. ,

the center of a circle setting pedestal432. for making protruding ascending turning button42. fixable rubber mat431. and pedestal412. separately setting to make several pairs concave holes and protruding balls joining, the edge of rubber mat431. setting convexity433. which can be joined the base orientation concave trough46.

spanner with two jaws7. consists of:

Showing itself a ring, its surface of the internal circularity opens along axes several bigger ends73. of concave71. & their extending ends74. corresponding with protruding position of upper of the pressing cover and slab plug12. ,

Showing itself a ring , its surface of the internal circularity opens along axes several smaller ends75. of protruding small column72. and their extending ends76. , join concave422. on the ascending turning button42.,

the bigger extending end 74. insert the smaller extending end 76. with each other,

The middle of smaller extending end76. concave to form a trough77. in which can be inserted flashboard79. which is formed by the two sides of bigger extending end 73. concave to form a trough78.

Movable juice glass6. under the bottom end of exit32. shows itself crescent and joins surface of external circle of base rack4.

Operating Instruction:

Setting the base4. on smooth desk, the smaller end of the spanner7. joining and covers ascending turning button42. ,

turning the spanner7. to make 42. raised, fixes base4. on desk , turns down the container3. on base4. according to the direction, inserts plug connection5. , putting pedestal 2. into container3. , cutting fruit into two pieces for squeezing and put it global-shape protruding surface25. of pedestal 2. , joining glass6 to exit32. of container3. , unscrewing external screw thread15. of pressing cover1. into container3. , after turning pressing cover1. a little while , joining one of the ends of spanner into several protruding bars14. of pressing cover1. , turning spanner7. and pressing cover1. will squeeze fruit, juice flows into glass from exit,

when fruit is thoroughly squeezed , the power of spanner will increase a lot, then turn spanner over to exit pressing cover1.from container3. , taking the skin of fruit from pedestal 2. ,
Circulate the steps above.

In order to transport conveniently , usually, the bigger extending end74. and the smaller extending end76. of spanner7. are used separately , i.e. the bigger extending end74. is covered pressing cover1.for turning and the smaller extending end76. is covered ascending button42. for turning. When you need squeeze further, you can cover linking-stick with the bigger extending end74. and the smaller extending end76.(You can also to tighten with bolt).

证 明

本证明之附件是向本局提交的下列专利申请副本

申 请 日： 2002 12 17

申 请 号： 02 2 50404.4

申 请 类 别： 实用新型

发明创造名称： 榨汁器

申 请 人： 叶仲伦

发明人或设计人：叶仲伦

中华人民共和国
国家知识产权局局长

王 荣 川

2003 年 12 月 30 日

权 利 要 求 书

1.一种榨取水果的榨汁器,包括压盖、支座、容器、底座等,其特征在于:容器下端旋接在底座上、定位销插接在底座与容器之间,支座置入容器内,容器内侧底部设有一斜向向下的出汁口,位于出汁口底端配有可移动的果汁杯,容器上端以螺纹连接压盖,另配有专用于旋紧压盖及底座的双头板手。

2.根据权利要求1所述的榨汁器,其特征在于:压盖由柱状径向的顶盖、通过紧固件轴向连接在顶盖上的压芯、压芯上部均匀分布多条凸位、压芯下部的外螺纹、压芯内部底端设有与支座凸起的半球状凸面相吻合的半球状凹面组成。

3.根据权利要求1所述的榨汁器,其特征在于:支座由半球状凸面、半球状凸面上设有多条由上至下逐渐变化的弧形凹槽,半球状凸面外侧下部设有的环形凸起、环形凸起上沿圆周径向均匀分布的数个小圆孔、半球状凸面底端开有数个与容器内侧底端固设“T”字形定位凸台套接的定位凹槽组成。

4.根据权利要求1所述的榨汁器,其特征在于:容器由其内侧上部设有的数段、数层可与压盖压芯下部外螺纹旋合的内螺纹、内侧底部开有可贯通容器内、外空间的出汁口、与支座半球状凸面底端定位凹槽相套接且位于容器内侧底端固设的“T”字形定位凸台、外侧出汁口上部轴向设有均匀的凸、凹防滑条、底部径向设有数个与底座支架相扣合的扣位、底端外圆周上开有其顶部两边有骨位相接且形成一个“U”形槽的阶梯状缺口组成。

5.根据权利要求1所述的榨汁器,其特征在于:底座由密封吸盘、放置在密封吸盘上方的底座支架、穿过底座支架中央通孔且轴向中端设有定位凸台以螺纹连接密封吸盘的提升旋钮、底座支架的上端外壁上设有的方孔及与该方孔相连接,高度小于方孔高度的两条骨位、插合在底座方孔内用于底座与容器连接定位的定位销、底座支架底端圆周上设有与密封吸盘外圆周面凸起相扣合的定位凹槽组成。

6.根据权利要求1或5所述的榨汁器,其特征在于:密封吸盘由穿入橡胶垫中央通孔、其圆心处凸设供提升旋钮旋合定位的支承座、橡胶垫与支承座分

6
别对应设置用于定位扣合的数对凹孔、凸球、橡胶垫边缘设有可扣入底座定位凹槽的凸起组成。

7.根据权利要求 1 或 5 所述的榨汁器，其特征在于：定位销呈抽屉状。

8.根据权利要求 1 所述的榨汁器，其特征在于：双头板手由呈圆环状其内圆表面轴向开有若干个与压盖压芯上部凸位相对应的凹槽的大头及其延伸端、呈圆环状其内圆表面轴向开有可与提升旋钮上方的凹槽相套合的若干个凸起小圆柱的小头及其延伸端、小头延伸端中端内凹形成的凹槽内插入大头延伸端端部双边内凹形成凹槽的插板组成。

9.根据权利要求 1 或 8 所述的榨汁器，其特征在于：小头延伸端中端内凹形成凹槽的连杆可插入大头延伸端端部双边内凹形成的凹槽组成一个整体加长的两头板手。

10.根据权利要求 1 所述的榨汁器，其特征在于：位于出汁口下端部位可移动的果汁杯是与底座支架外圆表面相靠合的内凹面且呈月牙形的容器。

说明书

榨汁器

技术领域

本实用新型涉及一种用来榨取橙子、西柚等水果果汁的手工操作榨汁器。

背景技术

目前市场上常见的这类手动榨汁器大致分为两类：一类是手压式，它利用杠杆或天梯牙的原理，将水果放在容器内，压下手柄，用力挤压来榨取果汁，挤压过程不稳定，十分费力，而且不易清洗；另一类是手持橙放在榨汁器内，边压边转动橙，利用榨汁器上凸起的梭边来刮取果汁，水果榨得不彻底，果汁不能充分榨出，而且榨汁器容易移动，操作起来不方便。

发明内容

本实用新型的目的是克服上述现有技术中的不足之处而提供一种利用螺纹转动向下压缩运动挤压水果，榨出果汁，挤压过程稳定，省力，吸盘吸力充足，可牢固定位于台面，水果榨汁彻底，容易清洗，款式新颖的榨汁器。

本实用新型的目的可以通过以下措施来达到：

这种榨取水果的榨汁器，包括压盖、支座、容器、底座等，其特殊之处在于：容器下端旋接在底座上、定位销插接在底座与容器之间，支座置入容器内，容器内侧底部设有一斜向向下的出汁口，位于出汁口底端配有可移动的果汁杯，容器上端以螺纹连接压盖，另配有专用于旋紧压盖及底座的双头扳手。

本实用新型的目的还可以通过以下措施来达到：

压盖由柱状径向部位的顶盖、通过紧固件轴向连接在顶盖上的压芯、压芯上部均匀分布多条凸位、压芯下部的外螺纹、压芯内部底端设有与支座凸起的半球状凸面相吻合的半球状凹面组成。

支座由半球状凸面、半球状凸面上设有多条由上至下逐渐变化的弧形凹槽，半球状凸面外侧下部设有的环形凸起、环形凸起上沿圆周径向均匀分布的数个小圆孔、半球状凸面底端开有数个与容器内侧底端固设“T”字形定位凸台套接的定位凹槽组成。

容器由其内侧上部设有的数段、数层可与压盖压芯下部外螺纹旋合的内螺纹、内侧底部开有可贯通容器内、外空间的出汁口、与支座半球状凸面底端定位凹槽相套接且位于容器内侧底端固设的“T”字形定位凸台、外侧出汁口上部轴向设有均匀的凸、凹防滑条、底部径向设有数个与底座支架相扣合的扣位、底端外圆周上开有其顶部两边有骨位相接且形成一个“U”形槽的阶梯状缺口组成。

底座由密封吸盘、放置在密封吸盘上方的底座支架、穿过底座支架中央通孔且轴向中端设有定位凸台以螺纹连接密封吸盘的提升旋钮、底座支架的上端外壁上设有的方孔及与该方孔相连接，高度小于方孔高度的两条骨位、插入在底座方孔内用于底座与容器连接定位的定位销、底座支架底端圆周上设有与密封吸盘外圆周面凸起相扣合的定位凹槽组成。

密封吸盘由穿入橡胶垫中央通孔、其圆心处凸设供提升旋钮旋合定位的支承座、橡胶垫与支承座分别对应设置用于定位扣合的数对凹孔、凸球、橡胶垫边缘设有可扣入底座定位凹槽的凸起组成。

定位销呈抽屉状。

双头板手由呈圆环状其内圆表面轴向开有若干个与压盖压芯上部凸位相对应的凹槽的大头及其延伸端、呈圆环状其内圆表面轴向开有可与提升旋钮上方的凹槽相套合的若干个凸起小圆柱的小头及其延伸端、小头延伸端中端内凹形成的凹槽内插入大头延伸端端部双边内凹形成凹槽的插板组成。

小头延伸端中端内凹形成凹槽的连杆可插入大头延伸端端部双边内凹形成凹槽的连杆。

位于出汁口下端部位可移动的果汁杯是与底座支架外圆表面相靠合的内凹面且呈月牙形的容器。

本实用新型相比现有技术，具有如下优点：

- 1.结构简单，安全可靠。
- 2.榨汁彻底，省时省力。
- 3.美观大方，经久耐用。
- 4.物美价廉，大众消费。

附图说明

图 1 是本实用新型的立体分解示意图。

图 2 是本实用新型双头扳手大头端的使用过程示意图。

图 3 是本实用新型双头扳手小头端的使用过程示意图。

图 4 是本实用新型双头扳手的连接示意图。

图 5 是本实用新型双头扳手拆开后的示意图。

具体实施方式

本实用新型下面将结合附图作进一步详述：

本实用新型包括：压盖 1、支座 2、容器 3、底座 4、定位销 5、果汁杯 6、双头扳手 7。容器 3 的下端旋接在底座 4 上、呈抽屉状的定位销 5 插接在底座 4 与容器 3 之间，支座 2 置入容器 3 内，容器 3 内侧底部设有一斜向向下的出汁口 32，位于出汁口 32 底端配有可移动的果汁杯 6，容器 3 上端以螺纹连接压盖 1，另配有专用于旋紧压盖 1 及底座吸盘的双头扳手 7。其中：压盖 1 由柱状径向的顶盖 11、通过螺钉 13 连接在顶盖 11 上的压芯 12、压芯 12 上部均匀分布的多条凸位 14、压芯 12 下部的螺纹 15、压芯 12 内部底端设有与支座 2 凸起的半球状凸面 25 相吻合的半球状凹面组成。支座 2 由半球状凸面 25、半球状凸面 25 上设有多条由上至下逐渐变化的弧形凹槽 21，半球状凸面 25 外侧下部设有的环形凸起 22、环形凸起 22 上沿圆周径向均匀分布的数个小圆孔 23、半球状凸面 25 底端开有数个与容器 3 内侧底端固设“T”字形定位凸台 33 相套接的定位凹槽 24 组成。容器 3 由其内侧上部设有的四段、六层可与压盖压芯 12 下部外螺纹旋合的内螺纹 31、内侧底部开有可贯通容器 3 内、外空间的出汁口 32、与支座半球状凸面 25 定位凹槽 24 相套接且位于容器 3 内侧底端固设的“T”字形定位凸台 33、外侧出汁口 32 上部轴向设有均匀的凸、凹防滑条 34、底部径向设有数个与底座支架 4 相扣合的扣位 35，底端外圆周上开有其顶部两边有骨位相接且形成一个“U”形槽的阶梯状缺口 36 组成。底座 4 由密封吸盘 43、放置在密封吸盘 43 上方的底座支架 41、穿过底座支架 41 中央通孔且轴向中端设有定位凸台 421 以螺纹连接密封吸盘 43 的提升旋钮 42、底座支架 41 的上端外壁上设有的方孔 44 及与该方孔 44 相连接，高度小于方孔 44 高度的两条骨位、插合在底座

方孔 44 内用于底座 4 与容器 3 连接定位的定位销 5、底座支架 41 底端圆周上设有与密封吸盘 43 外圆周面凸起 433 相扣合的定位凹槽 46 组成。密封吸盘 43 由穿入橡胶垫 431 中央通孔、其圆心处凸设供提升旋钮 42 旋合定位的支承座 432、橡胶垫 431 与支承座 412 分别对应设置用于定位扣合的数对凹孔、凸球，橡胶垫 431 边缘设有可扣入底座定位凹槽 46 的凸起 433 组成。双头扳手 7 由呈圆环状其内圆表面轴向开有若干个与压盖压芯 12 上部凸位 14 相对应的凹槽 71 的大头 73 及其延伸端 74、呈圆环状其内圆表面轴向开有可与提升旋钮 42 上方的凹槽 422 相套合的若干个凸起小圆柱 72 的小头 75 及其延伸端 76、大头延伸端 74 与小头延伸端 76 可相互插合，小头延伸端 76 中端内凹形成的凹槽 77 内插入大头延伸端 73 端部双边内凹形成凹槽 78 的插板 79。位于出汁口 32 下端部位可移动的果汁杯 6 是与底座支架 4 外圆表面形状相靠合的内凹面且呈月牙形的容器。

使用时，将榨汁器的底座 4 置于光滑平整的台面上，用双头扳手 7 小的一端套接在提升旋钮 42 上，转动双头扳手 7，使提升旋钮 42 提起，把底座 4 固牢在桌面上，再将容器 3 按一定方向旋接在底座 4 上，插入固定销 5，然后把支座 2 放置在容器 3 内，将要榨的水果切成两半，将切开面的放在支座 2 的球状凸面 25 上，将果汁杯 6 置于容器 3 的出汁口 32 处，再将压盖 1 的外螺纹 15 拧入容器 3 内，用手转动压盖 1 少许后，再把双头扳手的一端套入压盖 1 的多条凸位 14 处，转动双头扳手 7，压盖 1 便向下挤压水果，果汁从出汁口流入果汁杯内，当果汁榨尽时，扳手的力会增加许多，此时反转扳手，将压盖 1 从容器 3 内退出，从支座 2 上取下果皮，再进行下道工作。为了便于运输，双头扳手 7 的大头延伸端 74 与小头延伸端 76 通常是分开使用的，即大头延伸端 74 套入压盖 1 的旋转，小头延伸端 76 套入提升旋钮 42 的旋转，当需要较大力臂榨汁时，可将大头延伸端 74 与小头延伸端 76 的连杠 74 套合（也可用螺栓紧固）使用。

说明书附图

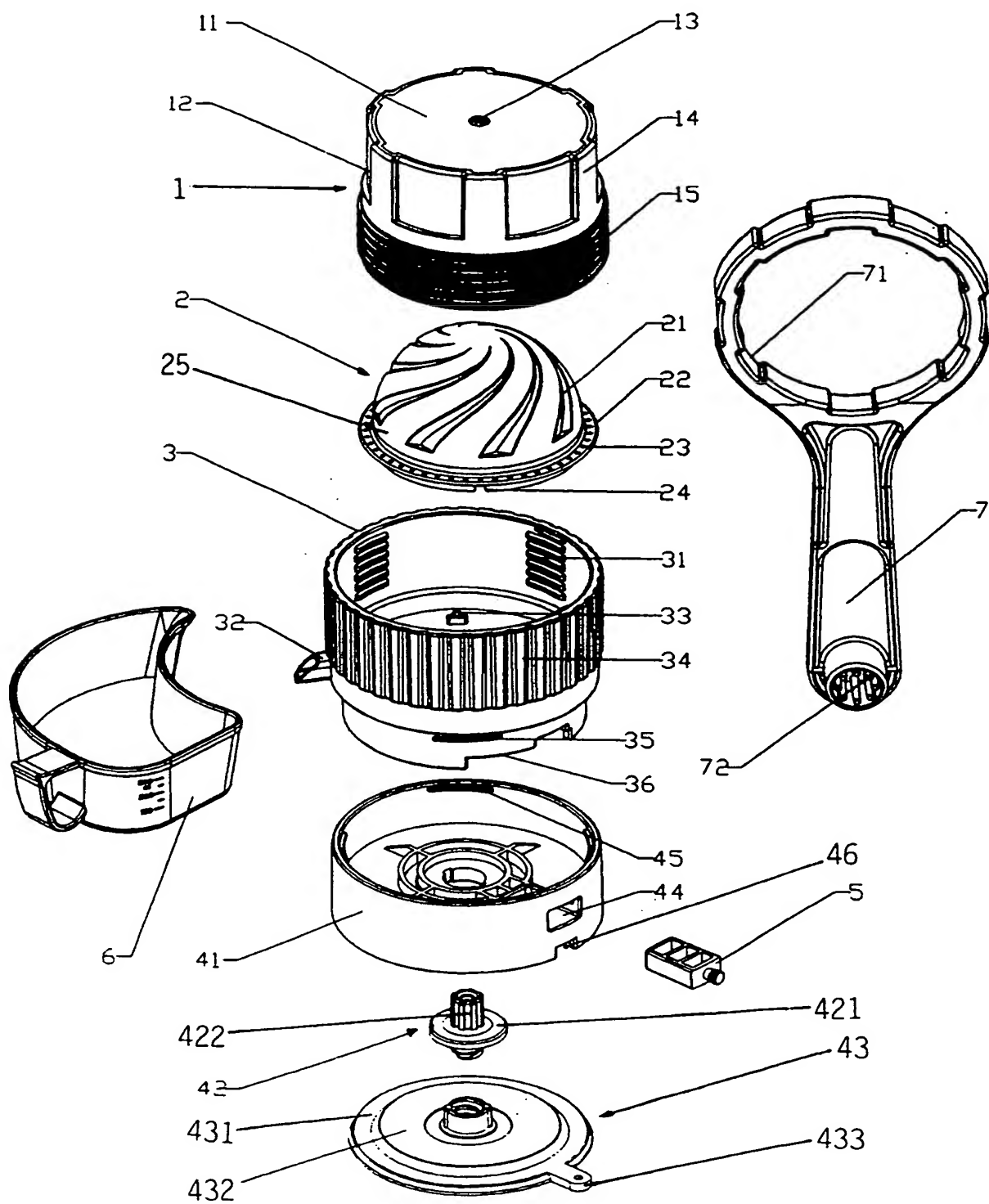


图 1

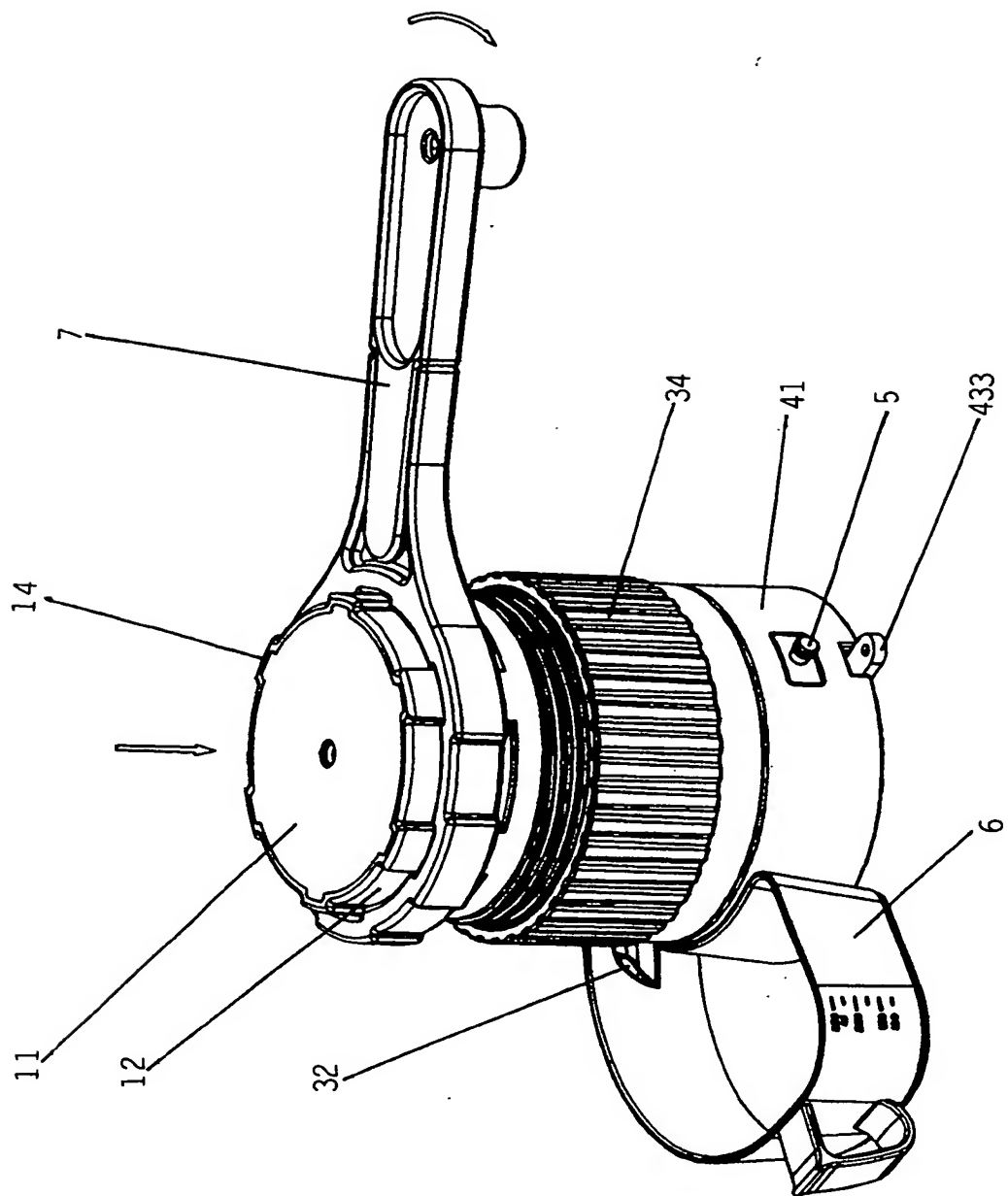


图 2

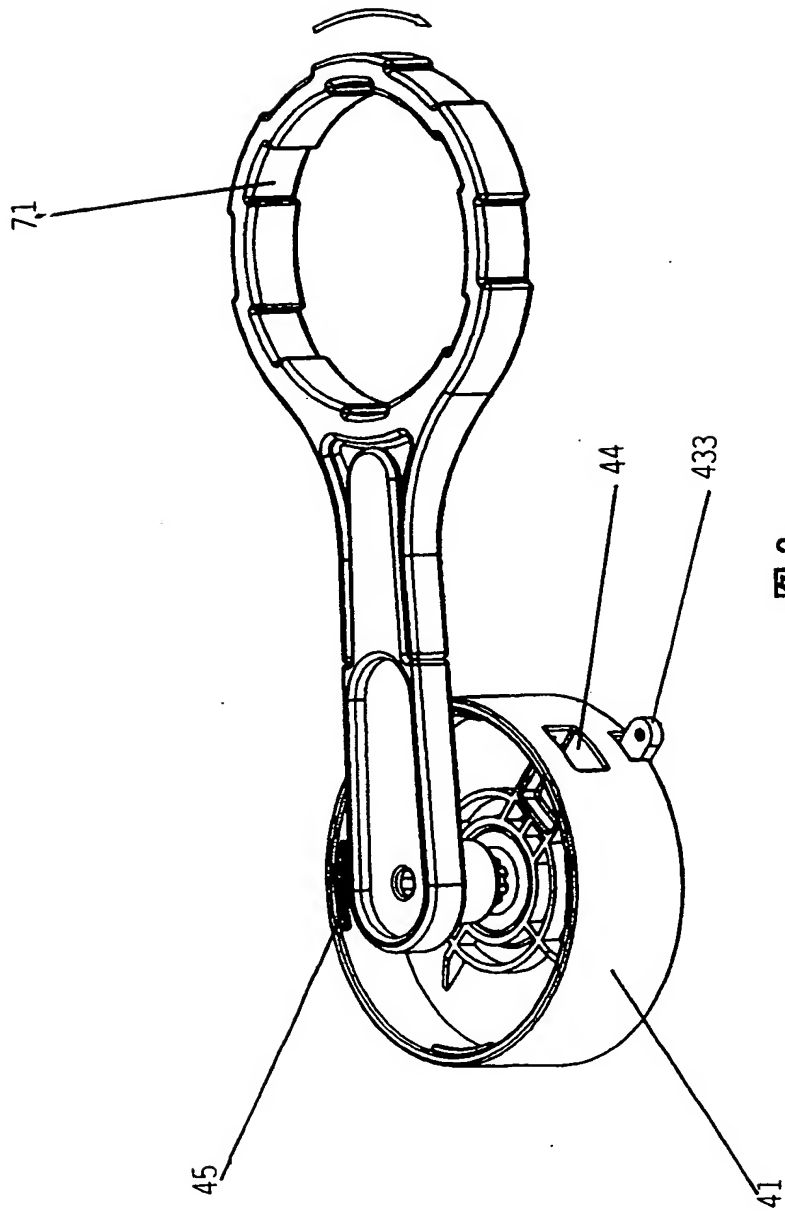


图 3

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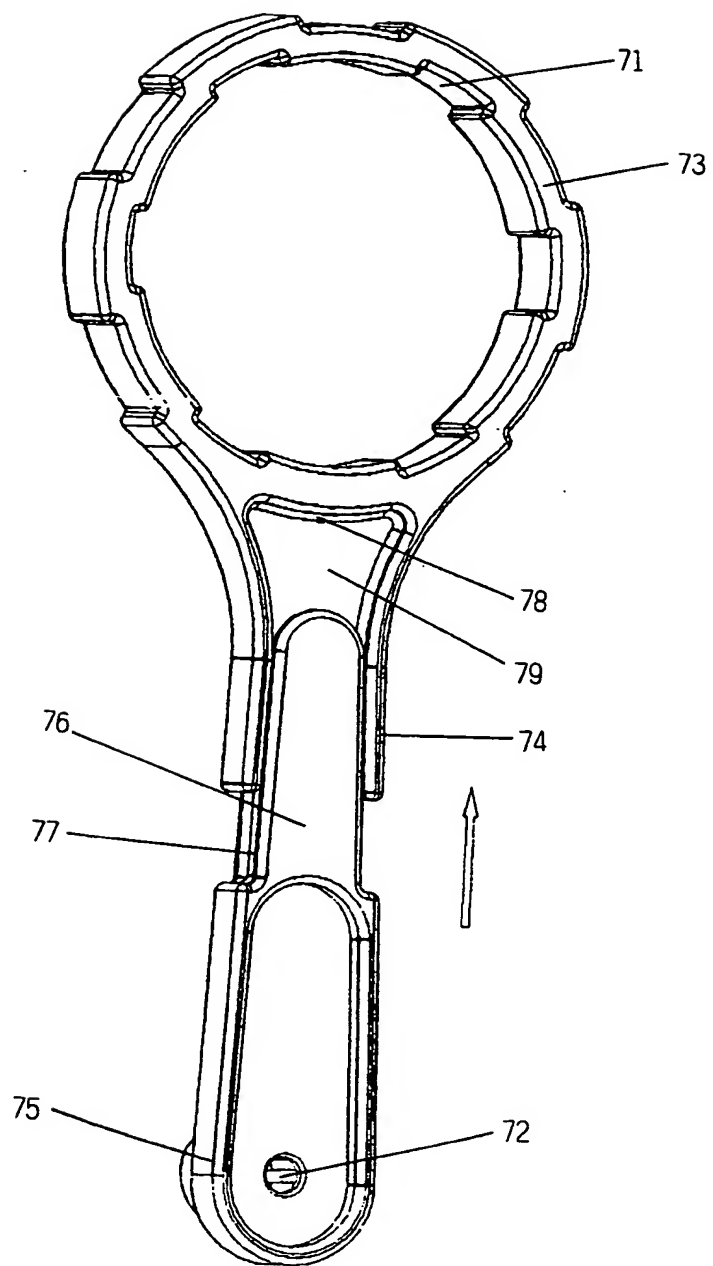


图 4

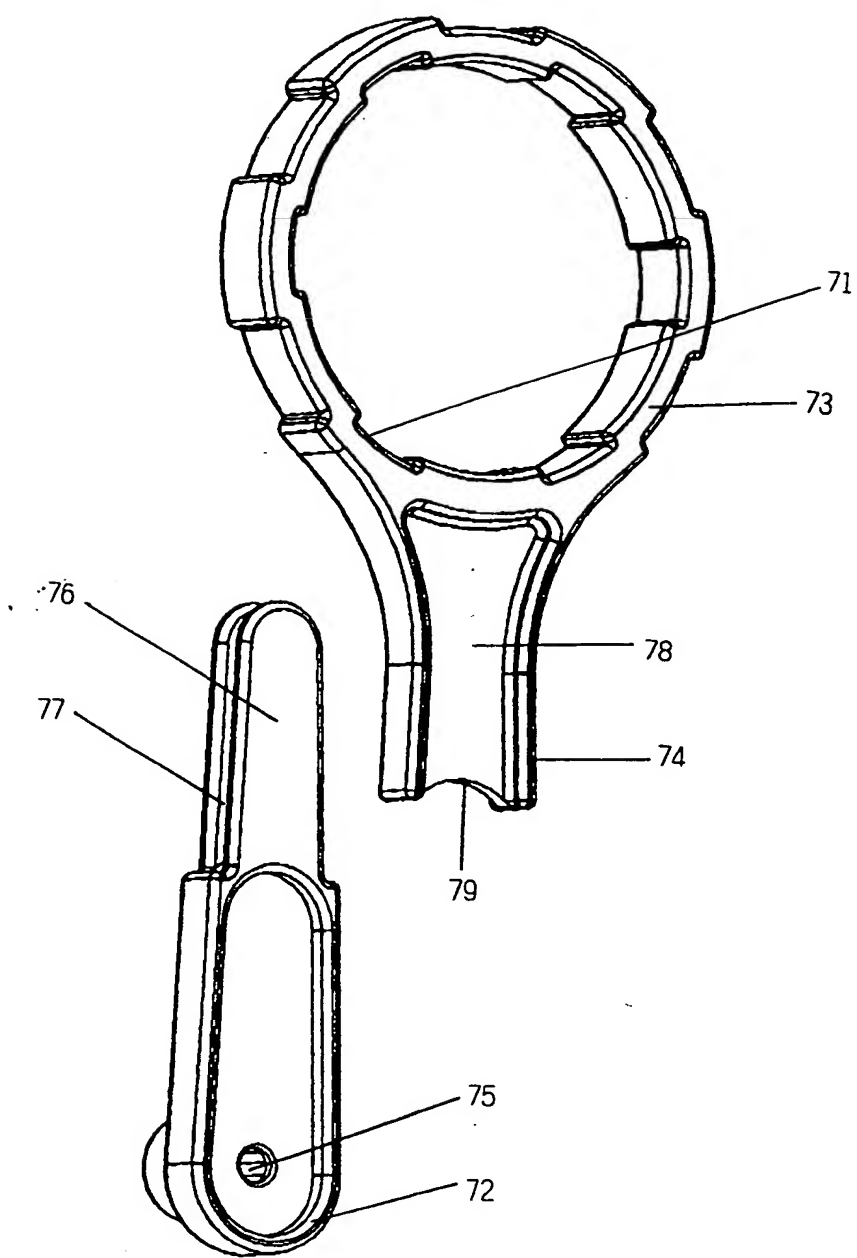


图 5

中华人民共和国国家知识产权局

共1页

邮政编码: 510070

A

广东省广州市先烈中路80号汇华商贸大厦1508

广州三环专利代理有限公司

满群

申请号: 02250404.4



发文日期:

2002 年 12 月 18 日

专利申请受理通知书

根据中华人民共和国专利法第二十八条及其实施细则第三十九条、第四十条的规定, 申请人提出的专利申请国家知识产权局专利局予以受理。现将确定的申请号和申请日通知如下:

申请号: 02250404.4

申请日: 2002 年 12 月 17 日

申请人: 叶仲伦

实用新型名称: 榨汁器

经核实确认国家知识产权局专利局收到如下文件:

请求书	每份页数: 2	份数: 2
摘要附图	每份页数: 1	份数: 2
说明书	每份页数: 4	份数: 2
专利代理委托书		

摘要	每份页数: 1	份数: 2
权利要求书	每份页数: 2	份数: 2
说明书附图	每份页数: 5	份数: 2
费用减缓请求书		

简要说明

1. 根据专利法第二十八条规定, 申请文件是邮寄的, 以寄出的邮戳日为申请日。若申请人发现上述申请日与邮寄申请文件之日不一致时, 可在收到本通知书起两个月内向国家知识产权局专利局受理处提交意见陈述书及挂号条存根, 要求办理更正申请日手续。
2. 申请号是国家知识产权局给予每一件被受理的专利申请的代号, 是该申请最有效的识别标志。申请人向我局办理各种手续时, 均应准确、清晰写明申请号。
3. 寄给审查员个人的文件或汇款不具法律效力。
4. 中间文件、分案申请、要求本国优先权的申请应直接寄交国家知识产权局专利局受理处。

中华人民共和国国家知识产权局

专利申请受理章

审查员: 张东华

0251-3-C10314

中华人民共和国国家知识产权局

邮政编码: 510070

SH

广东省广州市先烈中路80号汇华商贸大厦1508

广州三环专利代理有限公司

满群

申请号: 02250404.4



发文日期:

2002 年 12 月 18 日

费用减缓审批通知书

申请人: 叶仲伦

实用新型名称: 榨汁器

申请人依据中华人民共和国专利法实施细则第九十八条和国家知识产权局专利局有关规定就上述专利申请提出的费用减缓请求, 经审查手续齐备, 符合减缓条件,

同意申请费、授权后三年年费按85%比例减缓, 复审费按80%比例减缓。

依据中华人民共和国专利法实施细则第九十二条及国家知识产权局专利局第七十五号公告的规定, 申请人应当于2003年2月17日(根据细则第六条规定, 各种期限的第一日不计算在期限内。期限以年或者月计算的, 以其最后一月的相应日为期限届满日; 该月无相应日的, 以该月最后一日为期限届满日。期限届满日是法定节假日的, 以节假日后的第一个工作日为期限届满日)之前缴纳下列费用:

申请费[简称申] 75 元(已减缓)

共计 75 元

简要说明:

- 在指定日期前, 需将上述费用全部缴齐, 期满未缴纳或未缴足者, 视为撤回。
- 缴费方式: 以上费用可通过邮局或银行汇付, 也可以直接面缴国家知识产权局专利局及代办处。面缴的以收到费用之日为缴费日。通过邮局、银行汇付的, 以汇出日为缴费日。但自汇出日至国家知识产权局专利局收到日超过十五日的, 除邮局、银行出具证明以外, 以国家知识产权局专利局收到日为缴费日。
- 银行汇付 开户银行: 中国工商银行北京市海淀支行北太平庄分理处。
户名: 国家知识产权局专利局 帐号: 0200010009014400518。
- 邮局汇付 地址: 北京市海淀区蓟门桥西土城路六号(100088)。收款人: 国家知识产权局专利局收费处。
- 汇款时应准确写明申请号、费用名称简称及分项金额。未写明申请号和/或费用名称简称的视为未办理缴费手续。
- 申请费、年费及滞纳金、登记费、印花税可通过专利代办处缴纳, 其它费用应直接汇交国家知识产权局专利局收费处。

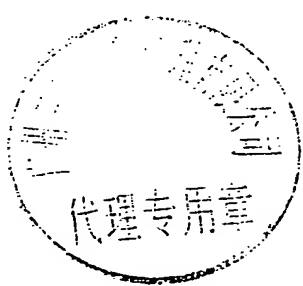
中华人民共和国国家知识产权局

审查员: 张东华

0251-3-C10314

请按照本表背面“填表注意事项”正确填写本表各栏

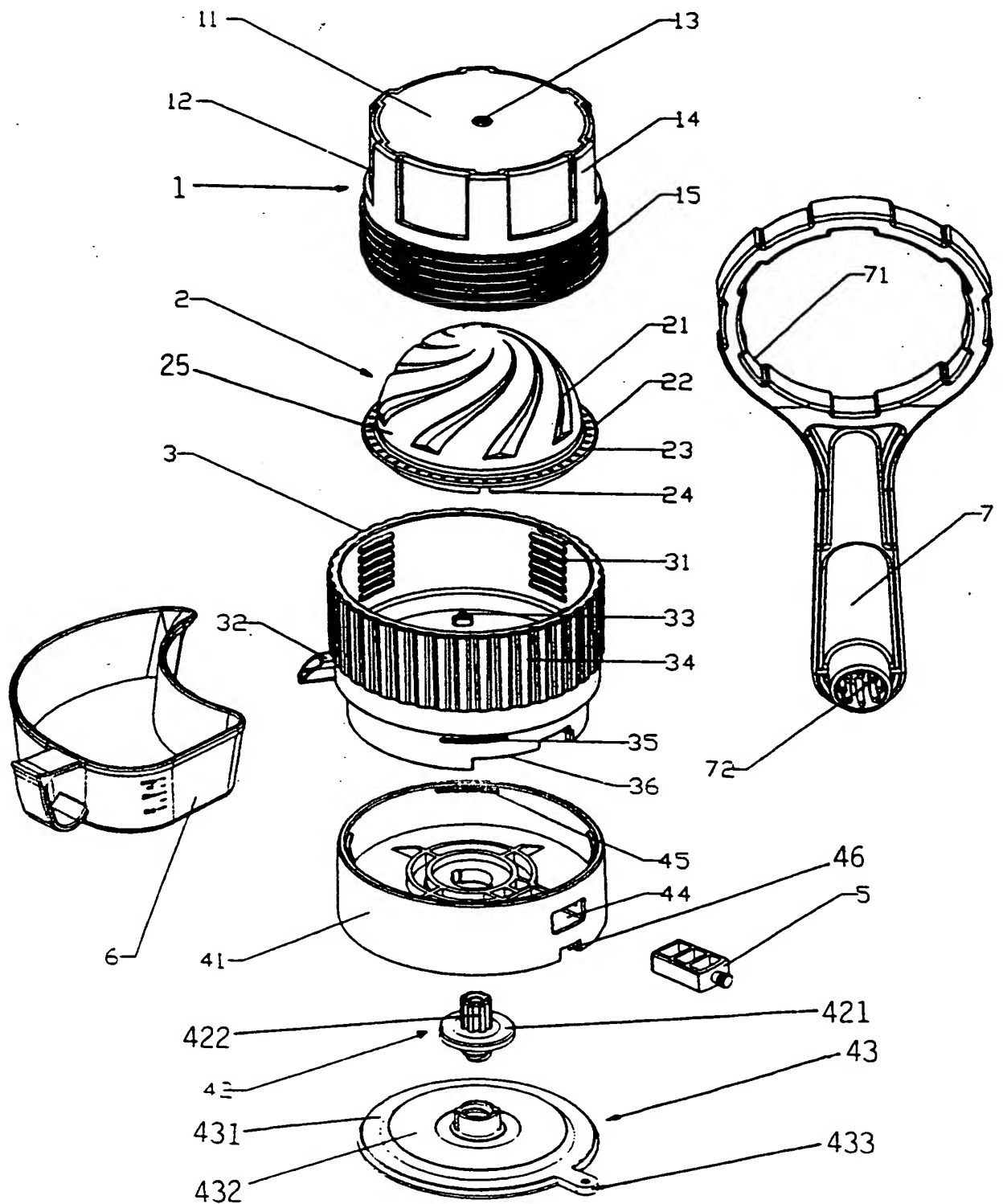
1201 (第 1 页) 2001.7

⑬	榨汁器				
⑭ 要求 优先 权声 明	在先申请 国别或地区	在先申请日	在先申请号	⑮ 宽 限 期 声 明 不 丧 失 新 颖 性	<input type="checkbox"/> 已在中国政府主办或承认的国际展览会上首次展出 <input type="checkbox"/> 已在规定的学术会议或技术会议上首次发表 <input type="checkbox"/> 他人未经申请人同意而泄露其内容
⑯ 申请文件清单 1.请求书 2 份 每份 2 页 2.说明书摘要 2 份 每份 1 页 3.摘要附图 2 份 每份 1 页 4.权利要求书 2 份 每份 2 页 5.说明书 2 份 每份 4 页 6.说明书附图 2 份 每份 5 页 权利要求的项数 10 项			⑰ 附加文件清单 <input checked="" type="checkbox"/> 费用减缓请求书 <input type="checkbox"/> 费用减缓请求证明 <input type="checkbox"/> 转让证明 <input checked="" type="checkbox"/> 专利代理委托书 <input type="checkbox"/> 经证明的在先申请文件副本 份数 <input type="checkbox"/> 原案申请文件副本 <input type="checkbox"/> 其他证明文件(注明文件名称) <input type="checkbox"/> <input type="checkbox"/>		
⑱ 申请人或代理机构签章 <div style="text-align: center;">  2002 年 12 月 14 日 </div>			⑲ 专利局对文件清单的审核 <div style="text-align: right;"> 年 月 日 </div>		

说明书摘要

本实用新型涉及一种利用螺纹转动向下压缩运动挤压水果，榨出果汁，榨汁彻底，容易清洗的榨汁器，其容器下端旋接在底座上、定位销插接在底座与容器之间，支座置入容器内，容器内侧底部设有一斜向向下的出汁口，位于出汁口底端配有可移动的果汁杯，容器上端以螺纹连接压盖，另配有专用于旋紧压盖及底座的双头扳手。

摘要附图



权 利 要 求 书

1.一种榨取水果的榨汁器,包括压盖、支座、容器、底座等,其特征在于:容器下端旋接在底座上、定位销插接在底座与容器之间,支座置入容器内,容器内侧底部设有一斜向向下的出汁口,位于出汁口底端配有可移动的果汁杯,容器上端以螺纹连接压盖,另配有专用于旋紧压盖及底座的双头扳手。

2.根据权利要求1所述的榨汁器,其特征在于:压盖由柱状径向的顶盖、通过紧固件轴向连接在顶盖上的压芯、压芯上部均匀分布多条凸位、压芯下部的外螺纹、压芯内部底端设有与支座凸起的半球状凸面相吻合的半球状凹面组成。

3.根据权利要求1所述的榨汁器,其特征在于:支座由半球状凸面、半球状凸面上设有多条由上至下逐渐变化的弧形凹槽,半球状凸面外侧下部设有的环形凸起、环形凸起上沿圆周径向均匀分布的数个小圆孔、半球状凸面底端开有数个与容器内侧底端固设“T”字形定位凸台套接的定位凹槽组成。

4.根据权利要求1所述的榨汁器,其特征在于:容器由其内侧上部设有的数段、数层可与压盖压芯下部外螺纹旋合的内螺纹、内侧底部开有可贯通容器内、外空间的出汁口、与支座半球状凸面底端定位凹槽相套接且位于容器内侧底端固设的“T”字形定位凸台、外侧出汁口上部轴向设有均匀的凸、凹防滑条、底部径向设有数个与底座支架相扣合的扣位、底端外圆周上开有其顶部两边有骨位相接且形成一个“U”形槽的阶梯状缺口组成。

5.根据权利要求1所述的榨汁器,其特征在于:底座由密封吸盘、放置在密封吸盘上方的底座支架、穿过底座支架中央通孔且轴向中端设有定位凸台以螺纹连接密封吸盘的提升旋钮、底座支架的上端外壁上设有的方孔及与该方孔相连接,高度小于方孔高度的两条骨位、插入在底座方孔内用于底座与容器连接定位的定位销、底座支架底端圆周上设有与密封吸盘外圆周面凸起相扣合的定位凹槽组成。

6.根据权利要求1或5所述的榨汁器,其特征在于:密封吸盘由穿入橡胶垫中央通孔、其圆心处凸设供提升旋钮旋合定位的支承座、橡胶垫与支承座分

别对应设置用于定位扣合的数对凹孔、凸球、橡胶垫边缘设有可扣入底座定位凹槽的凸起组成。

7.根据权利要求 1 或 5 所述的榨汁器，其特征在于：定位销呈抽屉状。

8.根据权利要求 1 所述的榨汁器，其特征在于：双头板手由呈圆环状其内圆表面轴向开有若干个与压盖压芯上部凸位相对应的凹槽的大头及其延伸端、呈圆环状其内圆表面轴向开有可与提升旋钮上方的凹槽相套合的若干个凸起小圆柱的小头及其延伸端、小头延伸端中端内凹形成的凹槽内插入大头延伸端端部双边内凹形成凹槽的插板组成。

9.根据权利要求 1 或 8 所述的榨汁器，其特征在于：小头延伸端中端内凹形成凹槽的连杆可插入大头延伸端端部双边内凹形成的凹槽组成一个整体加长的两头板手。

10.根据权利要求 1 所述的榨汁器，其特征在于：位于出汁口下端部位可移动的果汁杯是与底座支架外圆表面相靠合的内凹面且呈月牙形的容器。

说明书

榨汁器

技术领域

本实用新型涉及一种用来榨取橙子、西柚等水果果汁的手工操作榨汁器。

背景技术

目前市场上常见的这类手动榨汁器大致分为两类：一类是手压式，它利用杠杆或天梯牙的原理，将水果放在容器内，压下手柄，用力挤压来榨取果汁，挤压过程不稳定，十分费力，而且不易清洗；另一类是手持橙放在榨汁器内，边压边转动橙，利用榨汁器上凸起的梭边来刮取果汁，水果榨得不彻底，果汁不能充分榨出，而且榨汁器容易移动，操作起来不方便。

发明内容

本实用新型的目的是克服现有技术中的不足之处而提供一种利用螺纹转动向下压缩运动挤压水果，榨出果汁，挤压过程稳定，省力，吸盘吸力充足，可牢固定位于台面，水果榨汁彻底，容易清洗，款式新颖的榨汁器。

本实用新型的目的可以通过以下措施来达到：

这种榨取水果的榨汁器，包括压盖、支座、容器、底座等，其特殊之处在于：容器下端旋接在底座上、定位销插接在底座与容器之间，支座置入容器内，容器内侧底部设有一斜向向下的出汁口，位于出汁口底端配有可移动的果汁杯，容器上端以螺纹连接压盖，另配有专用于旋紧压盖及底座的双头扳手。

本实用新型的目的还可以通过以下措施来达到：

压盖由柱状径向部位的顶盖、通过紧固件轴向连接在顶盖上的压芯、压芯上部均匀分布多条凸位、压芯下部的外螺纹、压芯内部底端设有与支座凸起的半球状凸面相吻合的半球状凹面组成。

支座由半球状凸面、半球状凸面上设有多条由上至下逐渐变化的弧形凹槽，半球状凸面外侧下部设有的环形凸起、环形凸起上沿圆周径向均匀分布的数个小圆孔、半球状凸面底端开有数个与容器内侧底端固设“T”字形定位凸台套接的定位凹槽组成。

容器由其内侧上部设有的数段、数层可与压盖压芯下部外螺纹旋合的内螺纹、内侧底部开有可贯通容器内、外空间的出汁口、与支座半球状凸面底端定位凹槽相套接且位于容器内侧底端固设的“T”字形定位凸台、外侧出汁口上部轴向设有均匀的凸、凹防滑条、底部径向设有数个与底座支架相扣合的扣位、底端外圆周上开有其顶部两边有骨位相接且形成一个“U”形槽的阶梯状缺口组成。

底座由密封吸盘、放置在密封吸盘上方的底座支架、穿过底座支架中央通孔且轴向中端设有定位凸台以螺纹连接密封吸盘的提升旋钮、底座支架的上端外壁上设有的方孔及与该方孔相连接，高度小于方孔高度的两条骨位、插合在底座方孔内用于底座与容器连接定位的定位销、底座支架底端圆周上设有与密封吸盘外圆周面凸起相扣合的定位凹槽组成。

密封吸盘由穿入橡胶垫中央通孔、其圆心处凸设供提升旋钮旋合定位的支承座、橡胶垫与支承座分别对应设置用于定位扣合的数对凹孔、凸球、橡胶垫边缘设有可扣入底座定位凹槽的凸起组成。

定位销呈抽屜状。

双头板手由呈圆环状其内圆表面轴向开有若干个与压盖压芯上部凸位相对应的凹槽的大头及其延伸端、呈圆环状其内圆表面轴向开有可与提升旋钮上方的凹槽相套合的若干个凸起小圆柱的小头及其延伸端、小头延伸端中端内凹形成的凹槽内插入大头延伸端端部双边内凹形成凹槽的插板组成。

小头延伸端中端内凹形成凹槽的连杆可插入大头延伸端端部双边内凹形成凹槽的连杆。

位于出汁口下端部位可移动的果汁杯是与底座支架外圆表面相靠合的内凹面且呈月牙形的容器。

本实用新型相比现有技术，具有如下优点：

- 1.结构简单，安全可靠。
- 2.榨汁彻底，省时省力。
- 3.美观大方，经久耐用。
- 4.物美价廉，大众消费。

附图说明

图 1 是本实用新型的立体分解示意图。

图 2 是本实用新型双头扳手大头端的使用过程示意图。

图 3 是本实用新型双头扳手小头端的使用过程示意图。

图 4 是本实用新型双头扳手的连接示意图。

图 5 是本实用新型双头扳手拆开后的示意图。

具体实施方式

本实用新型下面将结合附图作进一步详述：

本实用新型包括：压盖 1、支座 2、容器 3、底座 4、定位销 5、果汁杯 6、双头扳手 7。容器 3 的下端旋接在底座 4 上、呈抽屉状的定位销 5 插接在底座 4 与容器 3 之间，支座 2 置入容器 3 内，容器 3 内侧底部设有一斜向向下的出汁口 32，位于出汁口 32 底端配有可移动的果汁杯 6，容器 3 上端以螺纹连接压盖 1，另配有专用于旋紧压盖 1 及底座吸盘的双头扳手 7。其中：压盖 1 由柱状径向的顶盖 11、通过螺钉 13 连接在顶盖 11 上的压芯 12、压芯 12 上部均匀分布的多条凸位 14、压芯 12 下部的外螺纹 15、压芯 12 内部底端设有与支座 2 凸起的半环状凸面 25 相吻合的半球状凹面组成。支座 2 由半球状凸面 25、半球状凸面 25 上设有多条由上至下逐渐变化的弧形凹槽 21，半球状凸面 25 外侧下部设有的环形凸起 22、环形凸起 22 上沿圆周径向均匀分布的数个小圆孔 23、半球状凸面 25 底端开有数个与容器 3 内侧底端固设“T”字形定位凸台 33 相套接的定位凹槽 24 组成。容器 3 由其内侧上部设有的四段、六层可与压盖压芯 12 下部外螺纹旋合的内螺纹 31、内侧底部开有可贯通容器 3 内、外空间的出汁口 32、与支座半球状凸面 25 定位凹槽 24 相套接且位于容器 3 内侧底端固设的“T”字形定位凸台 33、外侧出汁口 32 上部轴向设有均匀的凸、凹防滑条 34、底部径向设有数个与底座支架 4 相扣合的扣位 35，底端外圆周上开有其顶部两边有骨位相接且形成一个“U”形槽的阶梯状缺口 36 组成。底座 4 由密封吸盘 43、放置在密封吸盘 43 上方的底座支架 41、穿过底座支架 41 中央通孔且轴向中端设有定位凸台 421 以螺纹连接密封吸盘 43 的提升旋钮 42、底座支架 41 的上端外壁上设有的方孔 44 及与该方孔 44 相连接，高度小于方孔 44 高度的两条骨位、插合在底座

方孔 44 内用于底座 4 与容器 3 连接定位的定位销 5、底座支架 41 底端圆周上设有与密封吸盘 43 外圆周面凸起 433 相扣合的定位凹槽 46 组成。密封吸盘 43 由穿入橡胶垫 431 中央通孔、其圆心处凸设供提升旋钮 42 旋合定位的支承座 432、橡胶垫 431 与支承座 412 分别对应设置用于定位扣合的数对凹孔、凸球，橡胶垫 431 边缘设有可扣入底座定位凹槽 46 的凸起 433 组成。双头扳手 7 由呈圆环状其内圆表面轴向开有若干个与压盖压芯 12 上部凸位 14 相对应的凹槽 71 的大头 73 及其延伸端 74、呈圆环状其内圆表面轴向开有可与提升旋钮 42 上方的凹槽 422 相套合的若干个凸起小圆柱 72 的小头 75 及其延伸端 76、大头延伸端 74 与小头延伸端 76 可相互插合，小头延伸端 76 中端内凹形成的凹槽 77 内插入大头延伸端 73 端部双边内凹形成凹槽 78 的插板 79。位于出汁口 32 下端部位可移动的果汁杯 6 是与底座支架 4 外圆表面形状相靠合的内凹面且呈月牙形的容器。

使用时，将榨汁器的底座 4 置于光滑平整的台面上，用双头扳手 7 小的一端套接在提升旋钮 42 上，转动双头扳手 7，使提升旋钮 42 提起，把底座 4 固牢在桌面上，再将容器 3 按一定方向旋接在底座 4 上，插入固定销 5，然后把支座 2 放置在容器 3 内，将要榨的水果切成两半，将切开面的放在支座 2 的球状凸面 25 上，将果汁杯 6 置于容器 3 的出汁口 32 处，再将压盖 1 的外螺纹 15 拧入容器 3 内，用手转动压盖 1 少许后，再把双头扳手的一端套入压盖 1 的多条凸位 14 处，转动双头扳手 7，压盖 1 便向下挤压水果，果汁从出汁口流入果汁杯内，当果汁榨尽时，扳手的力会增加许多，此时反转扳手，将压盖 1 从容器 3 内退出，从支座 2 上取下果皮，再进行下道工作。为了便于运输，双头扳手 7 的大头延伸端 74 与小头延伸端 76 通常是分开使用的，即大头延伸端 74 套入压盖 1 的旋转，小头延伸端 76 套入提升旋钮 42 的旋转，当需要较大力臂榨汁时，可将大头延伸端 74 与小头延伸端 76 的连杠 74 套合（也可用螺栓紧固）使用。

说明书附图

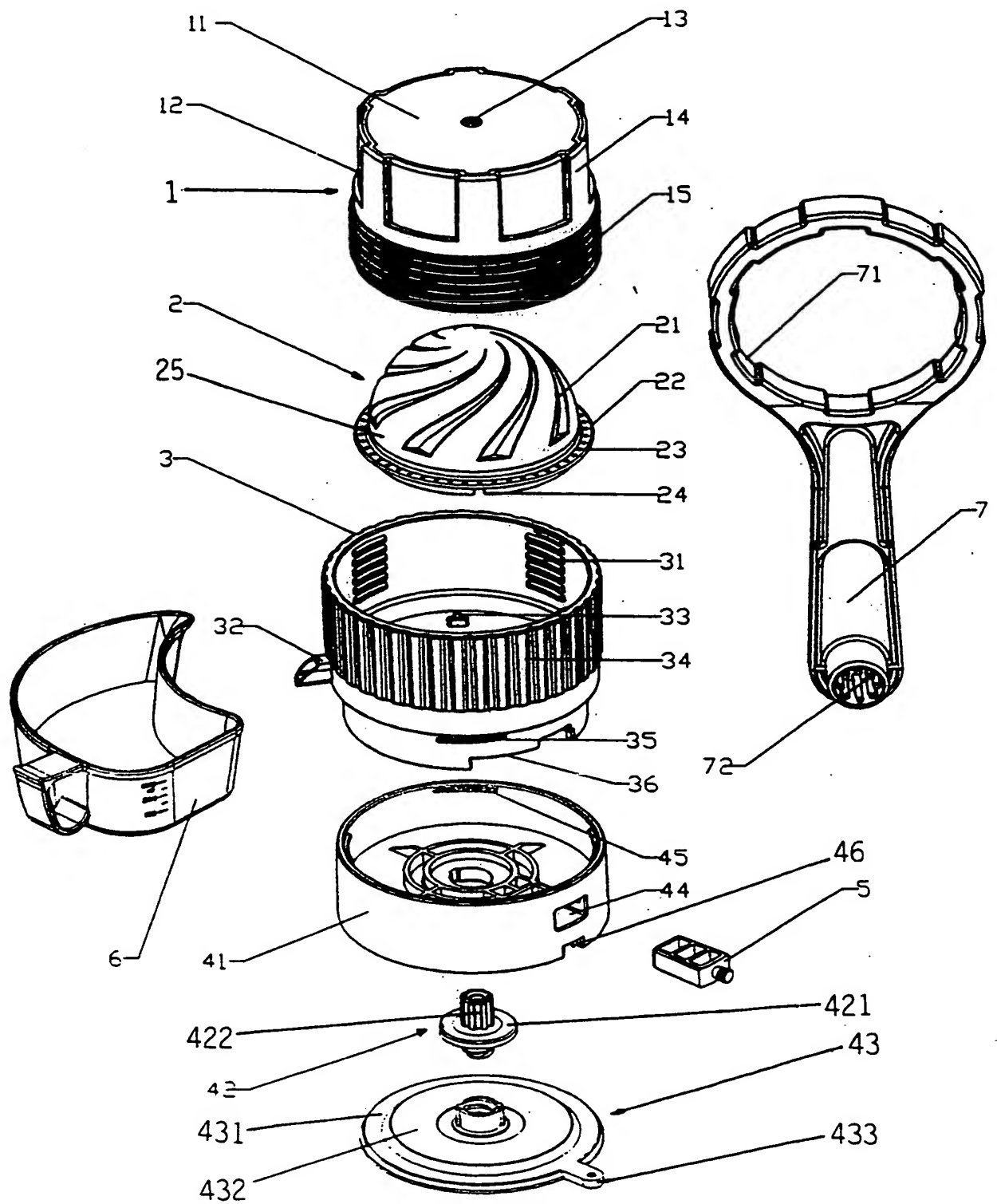


图 1

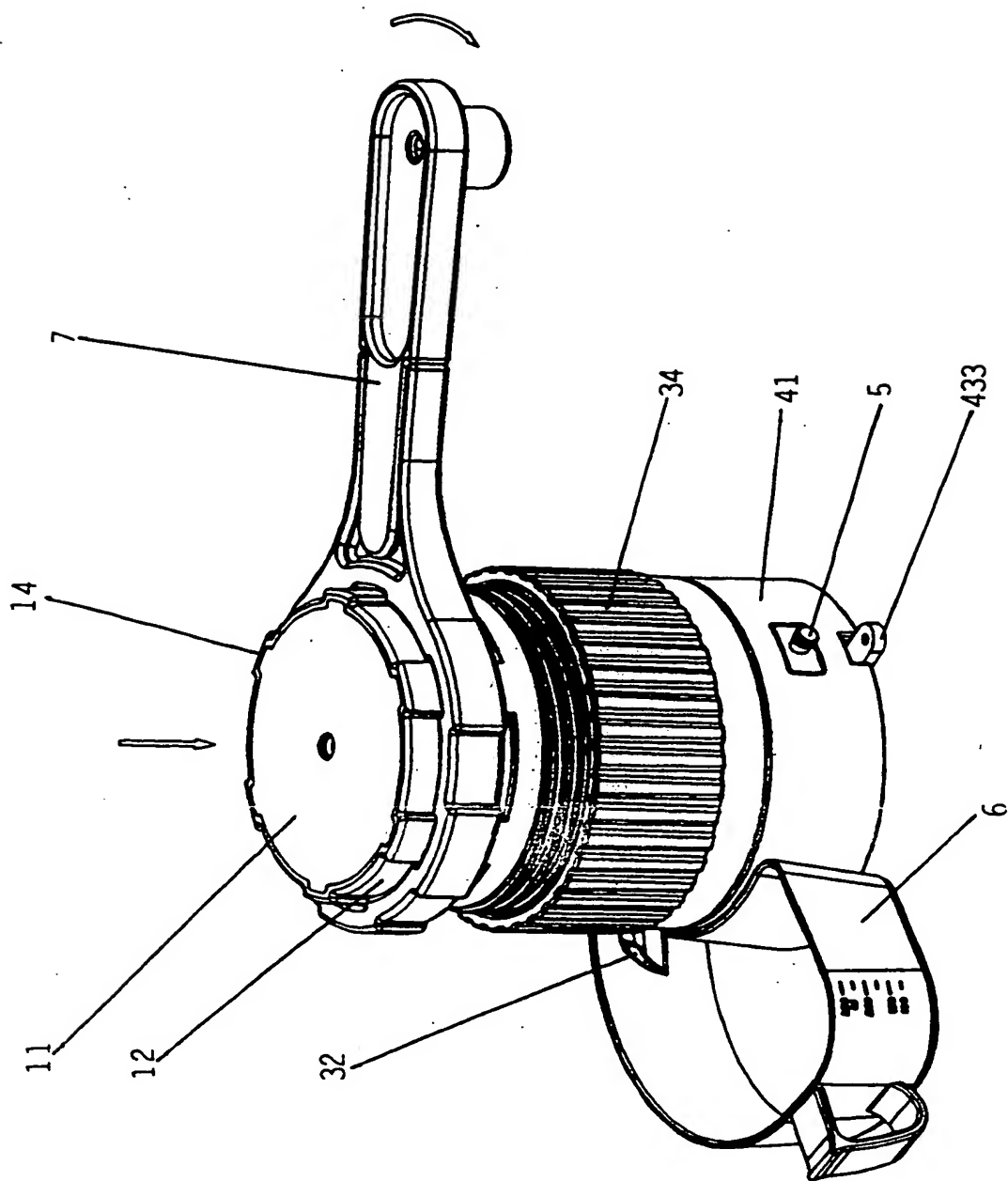


图 2

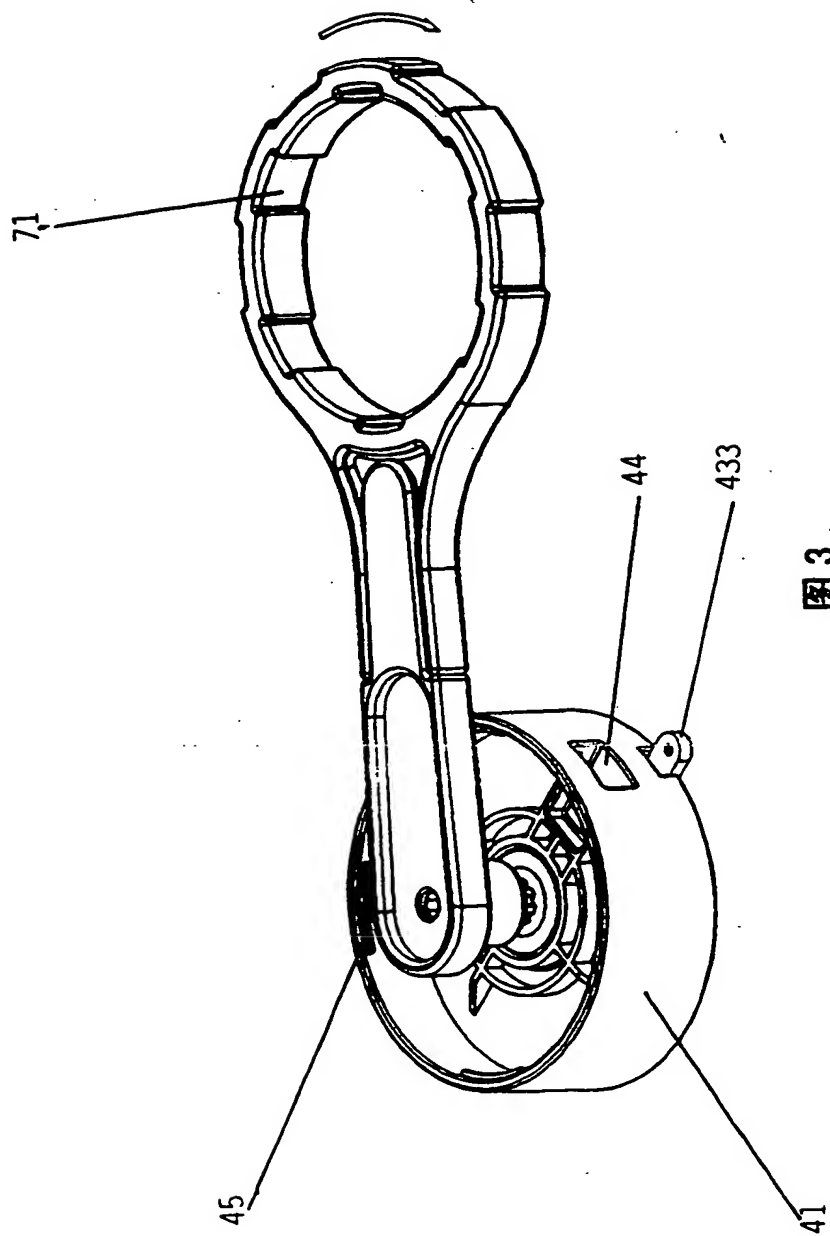


图 3

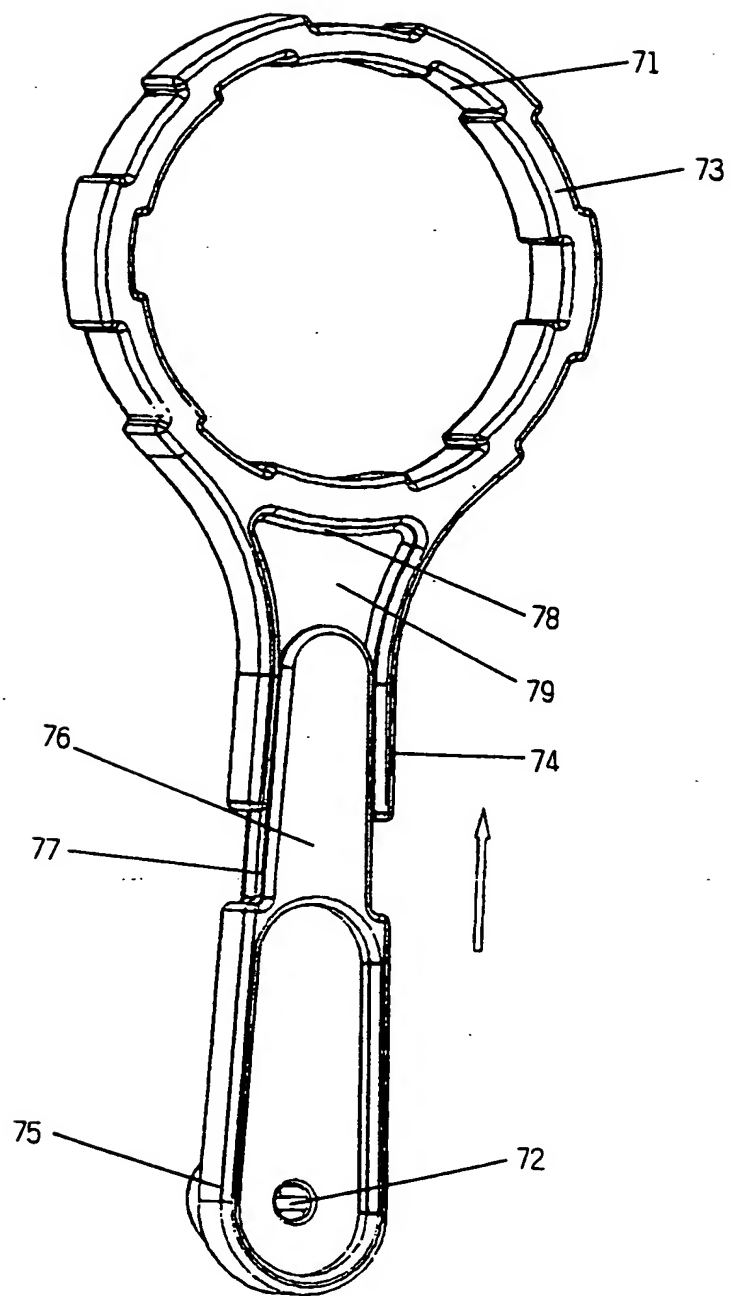


图 4

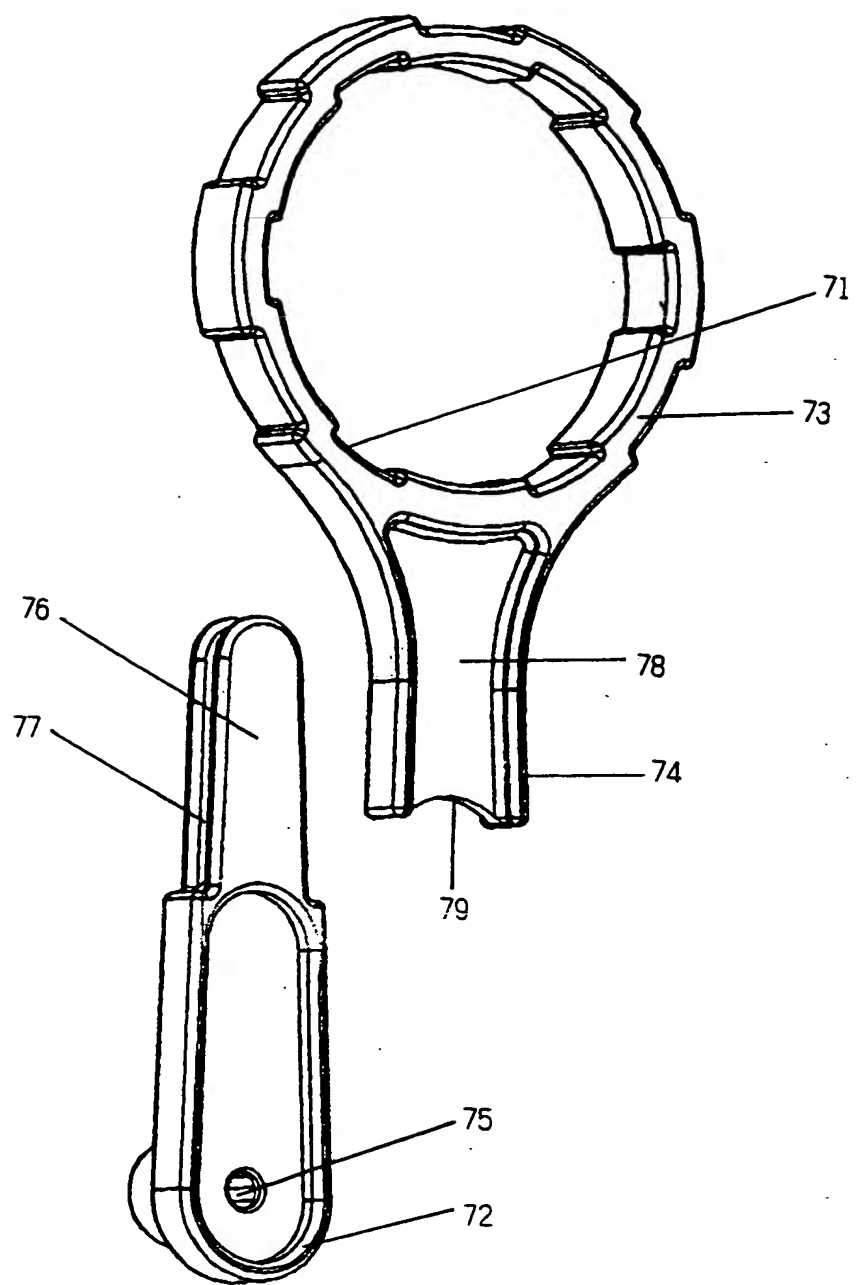


图 5